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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

CORRIELUS, JEAN M

ART UNIT PAPER NUMBER

2172

DATE MAILED: 04/08/2003

7

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/756,232

Applicant(s)

LE ET AL.

Examiner

Jean M Corrielus

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 January 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-50 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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DETAILED ACTION

1. This office action is in response to the application filed on January 09, 2001, which claims 1-50 are presented for examination.

Drawings

2. Applicants are required to furnish the formal drawings in response this office action. No new matter may be introduced in the required drawing. Failure to timely submit a drawing will result in **ABANDONMENT** of the application.

Information Disclosure Statement

3. The information disclosure statement (IDS) filed on November 07, 2002 (paper no.6) complies with the provisions of M.E.P.. § 609. It has been placed in the application file. The information referred to therein has been considered as to the merits. (See attached form).

Claim Rejections - 35 U.S.C. § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holmes US patent no. 5,864,860 in view of Svanbro et al (hereinafter "Svanbro") US Patent no.6,535,925.

As to claim 1, Holmes discloses a system for compressing a data sequence having a plurality of records. In particular, Holmes discloses the claimed features "comparing a current item list with a reference item list" (col.2, lines 13-46); and "determining a type of classification based on said comparing" as a match indication, responsive to a signal from the comparison step indicating that the data item matches the current field data item by a token indicating the match, wherein the data for that field is replaced by a token in the send record, this token indicating that the content of that field is the same as the content in the corresponding field (col.3, lines 3-15; col.4, lines 35-62). However, Holmes does not explicitly disclose a robust and efficient compression of list of items. On the other hand, Svanbro discloses an analogous system which includes a method for efficiently compressing and reconstructing a header of a real time communication packet (col.2, lines 4-33).

Therefore, it would have been obvious to one having ordinary skill in the art combine the teachings of cited references, wherein the database server, provided therein (see Holmes' fig.1) would incorporate the use of a robust and efficient compression of list of items, in the same conventional manner as disclosed by Svanbro. One having ordinary skill in the art would have

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found it obvious to utilize such a combination because that would provide Holmes' system the enhanced capability of efficiently compressing a header of a real-time communication packet.

As to claim 2, Holmes discloses the claimed feature "wherein the comparing determines a difference between said current item list and said reference item list" (col.2, lines 10-18; col.3, lines 5-15).

As to claim 3, Holmes discloses the claimed feature "sending information regarding said difference from a first entity to a second entity" (col.4, lines 63-col.5, line 3).

As to claim 4, Holmes and Svanbro disclose substantially the invention as claimed. In addition, Svanbro discloses the claimed feature "encoding the information regarding said difference prior to sending said information from said first entity to said second entity"(col.5, line 15-col.8, line 63).

Therefore, it would have been obvious to one having ordinary skill in the art combine the teachings of cited references, wherein the database server, provided therein (see Holmes' fig.1) would incorporate the use of a robust and efficient compression of list of items, in the same conventional manner as disclosed by Svanbro. One having ordinary skill in the art would have found it obvious to utilize such a combination because that would provide Holmes' system the enhanced capability of efficiently compressing a header of a real-time communication packet.

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As to claim 5, Holmes and Svanbro disclose substantially the invention as claimed. In addition, Svanbro discloses the claimed feature “wherein encoding the information comprises encoding information regarding a position of a newly added to said reference item list”(col.5, line 15-col.8, line 63). Therefore, it would have been obvious to one having ordinary skill in the art combine the teachings of cited references, wherein the database server, provided therein (see Holmes’ fig.1) would incorporate the use of a robust and efficient compression of list of items, in the same conventional manner as disclosed by Svanbro. One having ordinary skill in the art would have found it obvious to utilize such a combination because that would provide Holmes’ system the enhanced capability of efficiently compressing a header of a real-time communication packet.

As to claim 6, Holmes and Svanbro disclose substantially the invention as claimed. In addition, Svanbro discloses the claimed feature “wherein encoding the information comprises encoding information regarding which item in said reference item list is not in said current item list”(col.5, line 15-col.8, line 63). Therefore, it would have been obvious to one having ordinary skill in the art combine the teachings of cited references, wherein the database server, provided therein (see Holmes’ fig.1) would incorporate the use of a robust and efficient compression of list of items, in the same conventional manner as disclosed by Svanbro. One having ordinary skill in the art would have found it obvious to utilize such a combination because that would provide Holmes’ system the enhanced capability of efficiently compressing a header of a real-time communication packet.

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As to claim 7, Holmes and Svanbro disclose substantially the invention as claimed. In addition, Svanbro discloses the claimed feature "wherein encoding the information comprises encoding information regarding content of at least one item in said reference item list"(col.5, line 15-col.8, line 63). Therefore, it would have been obvious to one having ordinary skill in the art combine the teachings of cited references, wherein the database server, provided therein (see Holmes' fig.1) would incorporate the use of a robust and efficient compression of list of items, in the same conventional manner as disclosed by Svanbro. One having ordinary skill in the art would have found it obvious to utilize such a combination because that would provide Holmes' system the enhanced capability of efficiently compressing a header of a real-time communication packet.

As to claim 8, Holmes and Svanbro disclose substantially the invention as claimed. In addition, Svanbro discloses the claimed feature "wherein encoding the information comprises encoding information regarding a position of a newly added item to said reference item list (col.5, line 15-col.8); and encoding information regarding which item in said reference item list is not in said current item list" (col.5, line 15-col.8, line 63). Therefore, it would have been obvious to one having ordinary skill in the art combine the teachings of cited references, wherein the database server, provided therein (see Holmes' fig.1) would incorporate the use of a robust and efficient compression of list of items, in the same conventional manner as disclosed by Svanbro. One having ordinary skill in the art would have found it obvious to utilize such a combination because

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that would provide Holmes' system the enhanced capability of efficiently compressing a header of a real-time communication packet.

As to claim 9, Holmes discloses the claimed feature "sending a compressed list from a first entity to a second entity (col.4, lines 63-col.5, line 57).

As to claim 10, Holmes discloses the claimed feature "wherein said compressed list includes information regarding a difference between said current item list and said reference item list" (col.2, lines 10-18).

As to claim 11, Holmes and Svanbro disclose substantially the invention as claimed. In addition, Svanbro discloses the claimed feature "wherein said difference is encoded within said compressed list based on said determined type of classification"(col.5, lines 15-col.6, line 65). Therefore, it would have been obvious to one having ordinary skill in the art combine the teachings of cited references, wherein the database server, provided therein (see Holmes' fig.1) would incorporate the use of a robust and efficient compression of list of items, in the same conventional manner as disclosed by Svanbro. One having ordinary skill in the art would have found it obvious to utilize such a combination because that would provide Holmes' system the enhanced capability of efficiently compressing a header of a real-time communication packet.

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As to claim 12, Holmes and Svanbro disclose substantially the invention as claimed. In addition, Svanbro discloses the claimed feature "wherein said information further comprises a type of encoding" (col.5, lines 15-col.6, line 65). Therefore, it would have been obvious to one having ordinary skill in the art combine the teachings of cited references, wherein the database server, provided therein (see Holmes' fig.1) would incorporate the use of a robust and efficient compression of list of items, in the same conventional manner as disclosed by Svanbro. One having ordinary skill in the art would have found it obvious to utilize such a combination because that would provide Holmes' system the enhanced capability of efficiently compressing a header of a real-time communication packet.

As to claim 13, Holmes and Svanbro disclose substantially the invention as claimed. In addition, Svanbro discloses the claimed feature "wherein said type comprises an insertion, removal and change encoding scheme (col.1, lines 23-65). Therefore, it would have been obvious to one having ordinary skill in the art combine the teachings of cited references, wherein the database server, provided therein (see Holmes' fig.1) would incorporate the use of a robust and efficient compression of list of items, in the same conventional manner as disclosed by Svanbro. One having ordinary skill in the art would have found it obvious to utilize such a combination because that would provide Holmes' system the enhanced capability of efficiently compressing a header of a real-time communication packet.

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As to claim 14, Holmes discloses the claimed feature “sending information regarding a difference between an item in said current item list and a corresponding item in said reference item list” (col.2, lines 10-18).

As to claim 15, Holmes discloses the claimed feature “wherein said type of classification is based on whether an item in said reference item list is in said current item list” as a match indication, responsive to a signal from the comparison step indicating that the data item matches the current field data item by a token indicating the match, wherein the data for that field is replaced by a token in the send record, this token indicating that the content of that field is the same as the content in the corresponding field (col.3, lines 3-15; col.4, lines 35-62).

As to claim 16, Holmes discloses the claimed feature “wherein decompressing information sent from a first entity to a second entity”(col.5, lines 7-57).

As to claim 17, Holmes discloses the claimed feature “sending said reference item list from a first entity to a second entity” (col.4, lines 63-col.5, line 3).

As to claim 18, Holmes discloses the claimed feature “decompressing information sent from said first entity to said second entity using said previously sent reference item list as a reference” (col.5, lines 7-57).

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As to claims 19-50: the limitations of claims 19-50 have been noted in the rejection of claims 1-18 above. They are, therefore, rejected under the same rationale. In addition, Holmes discloses the claimed "classifying at least one item of a list" as a match indication, responsive to a signal from the comparison step indicating that the data item matches the current field data item by a token indicating the match, wherein the data for that field is replaced by a token in the send record, this token indicating that the content of that field is the same as the content in the corresponding field (col.3, lines 3-15; col.4, lines 35-62); "forming a compressed list including said at least one item" (col.4, lines 13-16); and "transmitting said compressed list" (col.4, lines 17-20, lines 55-62).

Conclusion

6. Any inquiry concerning this communication or early communication from the Examiner should be directed to **Jean Corrielus** whose telephone number is (703) 306-3035. The Examiner can normally be reached on the weekdays from 7:00am to 5:30pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, **Kim Vu**, can be reached on (703)305-9343.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 746-7239, (for formal communications intended for entry)

Or:

Serial Number: 09/756,232:

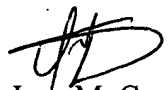
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(703)746-7240 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to **Crystal Park II, 2021 Crystal Drive,**

Arlington, VA., Sixth Floor (Receptionist).



Jean M. Corrielus

Patent Examiner

April 2, 2003